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SiRoute™

Wireless Infrastructure for Alarm Systems

With innovative radio technology

- No range limitation
- Self-configuring wireless network
- Redundant communication links
- Battery lifetime up to 4 years
- Very good reliability
- "White collar" installation
- Higher security
- One remote control for alarm system, emergency and home automation control
- Reduced inventory costs
- Family look blends with all environments
- Simple addressing



E-Gateway (E-Bus radio gateway for SI series control panels)



Radio module standard



Radio module for round detectors (e.g. smoke detectors)

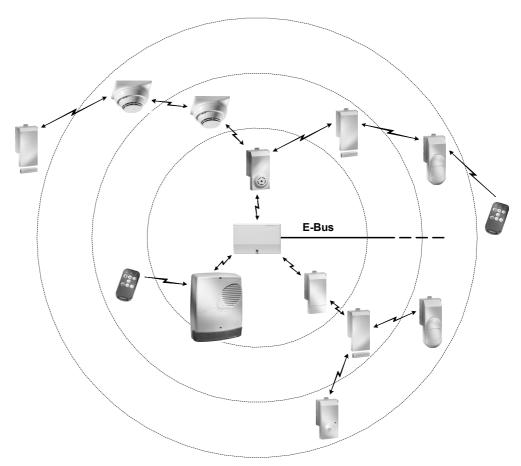


Universal mounting base

The new wireless infrastructure SiRoute[™] brings a complete range of devices with an innovative and reliable radio technology, which offers an unlimited transmission range and a higher security. The SiRoute[™] technology is unique, based on an 868MHz bidirectional radio transmission. It features a patented routing mechanism named EasyRouting. The SiRoute[™] peripheral devices can be used with Siemens hardwired systems series SI100/200/300/400 thanks to a new radio gateway.

No range limitation, self-configuring wireless network and redundant communication links

The patented telegram routing algorithm EasyRouting passes on the information from the wireless participants to the radio controller in the gateway and vice versa. The communication works by passing telegrams from one participant to the radio controller via other participants if a direct radio communication is not possible. In case of radio disturbances EasyRouting automatically searches for an alternative route between the participant and the radio controller.



• Battery lifetime up to 4 years

The SiRoute™ devices have such a low power consumption that the batteries can lead up to 4 years. The batteries are included in the supplied packages.

• Very good reliability

The redundancy of the routing mechanism and the high performance of the bidirectional radio technique make the SiRoute™ wireless infrastructure a very reliable product.

W7OP303

(shown with W7BT11)

W7IR90

(shown with W7BT10)

W7GB650

(shown with W7BT10)

W7MK100

(shown with W7BT10)









Smoke detector

ing by smoke particles.

Designed for low power

consumption it is pow-

ered by the batteries of

the radio module. The

smoke sensitivity is

An LED indicates the

alarm state in test

2.5%/m.

mode.

detector The standard 12m wide-The SiRoute™ wireless optical smoke detector

PIR motion

angle Fresnel lens can is based on light scatter- be quickly replaced by an optional 18m longrange lens. Corner mounting is possible using the optional bracket W7UM20 (5pcs set). The PIR (passiveinfrared) detector has an LED, which indicates the alarm state in walk test mode.

Acoustic glassbreak detector

In contrast to magnet contacts and vibration detectors, which must be mounted on all windows, the SiRoute™ acoustic glassbreak detector can monitor the windows of a whole room with a detection range up to 8m. It works with all glass types. An LED indicates the alarm state in test mode.

Door contact

The SiRoute™ wireless door contact has 3 reed contacts. This allows different positions of the housing for a great flexibility when installing the contact. The contact is designed for use on doors. One magnet is supplied with the contact. Spare contacts W7MK105 are available (5pcs set).

Tochnical data

rechnical data				
Operating voltage (battery supply)	from W7BT11	from W7BT10	from W7BT10	from W7BT10
Battery lifetime	up to 4 years	up to 4 years	up to 4 years	up to 4 years
Specific data	Smoke sensitivity: 2.5%/m	Detection range: 12m volumetric (stan- dard), 18m long range (optional)	Detection range: 8m radius	Detection type: magnetic contact (max. 10mm between contact and magnet)
Settings	-	Sensitivity: high / low / remote selectable by jumper	Sensitivity: high (up to 8m) / low (up to 4m) / remote selectable by jumper	-
Ambient conditions				
 Operating temperature 	-10 +55°C	-10 +55°C	-10 +55°C	-10 +55°C
 Storage temperature 	-20 +60°C	-20 +60°C	-20 +60°C	-20 +60°C
Air humidity (EN60721)	<95% r.h., non-cond.	<95% r.h., non-cond.	<95% r.h., non-cond.	<95% r.h., non-cond.
 Housing protection (EN60529) 	IP 44	IP 42	IP 31	IP 31
Housing Material	ABS	ABS	ABS	ABS
Radio module	W7BT11	W7BT10	W7BT10	W7BT10
Frequency	868.3MHz	868.3MHz	868.3MHz	868.3MHz
 Transmission type 	bidirectional	bidirectional	bidirectional	bidirectional
 Transmission range 	unlimited	unlimited	unlimited	unlimited
· ·	(EasyRouting)	(EasyRouting)	(EasyRouting)	(EasyRouting)
Approvals				
– ČE	CE conform	CE conform	CE conform	CE conform
- Radio	CEPT SRD 1f,g D	CEPT SRD 1f,g D	CEPT SRD 1f,g D	CEPT SRD 1f,g D

W7IO22 (shown with W7BT10)



W7SR10 (shown with W7BT10)



W7SR15



W7RC10



W7BT10





Input/output module 2/2

The SiRoute™ wireless input/output module 2/2 provides 2 inputs, which but offers a high sound can be set with a jumper level of 80dB at 3m for either NO or NC operation. The device provides also 2 potential battery. free outputs controlled by the radio module. The housing provides cable entries and strain relieves.

Indoor siren

The SiRoute™ indoor siren has a small size distances. It is powered by the radio module

Outdoor siren

The SiRoute™ outdoor siren is self-powered and integrates the radio module. The siren provides also a strobe. Several settings are possible with jumpers: the strobe can be activated separately (Out1 of the radio module), can follow the keys for standard consiren activation (Out2 of the radio module) or can be disabled. The siren can be activated with no time limit, during max 3min or can be disabled. The housing is weatherproof.

Remote control

The multifunctional remote control SiRoute™ is smaller than a credit card and only few mm thick, with indications by 3 LEDs. It has 7 trols as well as emergency (panic alarm). This handheld can be secured by programming a PIN code.

Radio modules

The SiRoute™ radio modules W7BT10 and W7BT11 use the same bidirectional transceiver board. W7BT11 has only a different socket for round detectors (e.g. smoke detectors). W7BT10 and W7BT11 use the universal mounting base, which is part of the radio module package.

from W7BT10	from W7BT10	4 x 1.5V LR20	1 x 3V Li CR2032 batt.	3 x 1.5V AA batt.
up to 4 years	up to 4 years	up to 4 years	up to 5 years	-
2 inputs, NO/NC select-	Sound level:	Sound level:	7 operation keys	-
able by jumpers (default	80dB@3m	100dB@3m	3 indication LEDs	
NO)				
2 outputs, potential free				
contacts, max. 40VDC /				
1A / 30W				
-	-	Siren: on-Out2 / on-Out2 3min / off	-	-
		Strobe: on-Out2 / on-Out1 / off		
		selectable by jumpers		
-10 +55°C	-10 +55°C	-10 +55°C	-10 +55°C	-10 +55°C
-20 +60°C	-20 +60°C	-20 +60°C	-20 +60°C	-20 +60°C
<95% r.h., non-cond.	<95% r.h., non-cond.	<95% r.h., non-cond.	<95% r.h., non-cond.	<95% r.h., non-cond.
IP 42	IP 31	IP 34	IP 55	-
ABS	ABS	PE / PC	ABS / PC	ABS
W7BT10	W7BT10	integrated	integrated	-
868.3MHz	868.3MHz	868.3MHz	868.3MHz	868.3MHz
bidirectional	bidirectional	bidirectional	unidirectional	bidirectional
unlimited	unlimited	unlimited	unlimited	unlimited
(EasyRouting)	(EasyRouting)	(EasyRouting)	(EasyRouting)	(EasyRouting)
CE conform	CE conform	CE conform	CE conform	CE conform
CEPT SRD 1f,g D	CEPT SRD 1f,g D	CEPT SRD 1f,g D	CEPT SRD 1f,g D	CEPT SRD 1f,g D

• "White collar" installation

The SiRoute™ wireless devices can be installed without the use of screws and pegs. A universal mounting base is fixed to the wall or ceiling with either a staple gun or double side adhesive tape. This allows a very quick and clean installation. Screws can also be used if really wanted. Once all mounting bases are fixed no tools are needed anymore. The devices simply can be plugged on the mounting bases by hand.

Higher security

The security of the SiRoute™ wireless infrastructure is very high thanks to the reliable radio transmission. The transmission is bidirectional and the frequency used is in the European SRD band dedicated to security applications (868-870MHz). The European SRD (Short Range Devices) band is reserved for radio devices with a transmission range up to 1km. This frequency band is therefore free from amateur radio usage or other highly powered transmissions.

• One remote control for alarm system, emergency and home automation control Beside the standard controls of a burglar alarm system like full set, part set, unset, the SiRoute™ remote control has a panic key and an on/off button for home automation control. Advanced controls allow putting the control panel in the walk test mode. The remote control can be used to either operate the entire system or a selected partition. The remote control can be secured by a 4 digits PIN code, which is easily programmed, changed or disabled.

• Reduced inventory cost

All available participants use only 2 different radio modules. One radio module is dedicated to round detectors (e.g. smoke detectors). The number of radio modules and the number of elements can be managed independently as they are supplied in separated packages.

• Family looks blends with all environments

The family design of the SiRoute[™] peripherals supports its modular structure. The SiRoute[™] devices blend in private homes as well as in commercial premises.

• Simple addressing

A SiRoute[™] wireless device is automatically enrolled in the control panel in two steps. Step 1: insert the batteries in the radio module. Step 2: plug the peripheral of your choice onto the radio module. Addressing the remote control is even easier: just press the Panic button.

Details for ordering

Туре	Part no	Designation	Dimens	sions (mn	n)	Weight ²
W7OP303	A5Q00001898	SiRoute™ smoke detector ¹	H 100	x L 100	x P 42 ¹	0.062kg ¹
W7IR90	A5Q00001849	SiRoute™ PIR motion detector ¹	H 155	x L 58	x P 44 ¹	0.062kg ¹
W7GB650	A5Q00001900	SiRoute™ acoustic glassbreak detector ¹	H 126	x L 58	x P 23 ¹	0.042kg ¹
W7MK100	A5Q00001901	SiRoute™ door contact ¹	H 126	x L 58	x P 20 ¹	0.040kg ¹
W7IO22	A5Q00001903	SiRoute™ input/output module 2/2 ¹	H 126	x L 58	x P 24 ¹	0.055kg ¹
W7SR10	A5Q00001904	SiRoute™ indoor siren ¹	H 126	x L 58	x P 30 ¹	0.045kg ¹
W7SR15	A5Q00003953	SiRoute™ outdoor siren	H 323	x L 240	x P 97	2.600kg
W7RC10	A5Q00002974	SiRoute™ remote control	H 83	x L 40	x P 7	0.020kg
W7BT10	A5Q00001923	SiRoute™ radio module standard	H 92	x L 68	x P 32	0.130kg
W7BT11	A5Q00002477	SiRoute™ radio module for round detectors	H 103	x L 103	x P 40	0.150kg
W7EG10	801065	SiRoute™ E-Gateway	H 86	x L 135	x P 27	0.122kg
		Radio gateway for E-Bus				
W7MK105	A5Q00002782	SiRoute™ magnet for W7MK100 (5 pcs.)	H 15-2	3 x L 54	x P 13 ³	0.160kg ⁴
		Spare/replacement part for W7MK100				
W7UM10	A5Q00003601	SiRoute™ universal mounting base (10 pcs.)	H 92	x L 63	x P 22 ³	0.125kg ⁴
		Spare/replacement part for W7BT10/11				
W7UM20	A5Q00003624	SiRoute™ corner mounting bracket (5 pcs.)	H 61	x L 51	x P 51 ³	0.075kg ⁴
		Option for W7BT10 typically used together				
		with PIR motion detector W7IR90				
-	502922	Long range Fresnel lens (3 pcs.)	H 65	x L 52	x P 2 3	0.005kg ⁴
		Option for PIR motion detector W7IR90				
W7LEG10	A5Q00004409	SiRoute™ installation instructions for	H 86	x L 135	x P 27	0.030kg
		W7EG10 (english)				

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¹ excl. radio module ² approx. net weight (excl. package) ³ dimensions for one piece ⁴ weight for one set of pieces